

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant: Mazany, et al.

Examiner: P. Marcantoni

Serial No.: 09/871,998

Group Art Unit: 1755

Filed: June 1, 2001

Date: August 13, 2004

For: **INORGANIC MATRIX COMPOSITION AND COMPOSITES INCORPORATING
THE MATRIX COMPOSITION**

Mail Stop 313 (c)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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INFORMATION DISCLOSURE STATEMENT

Sir:

This invention relates to a modified alkali silicate composition for forming an inorganic network matrix. The modified alkali silicate matrix is made by reacting an alkali silicate (or its precursors such as an alkali hydroxide, a SiO_2 source and water), an acidic inorganic composition, such as a reactive glass, water and optional fillers, additives and processing aids. An inorganic matrix composite can be prepared by applying a slurry of the modified aqueous alkali silicate composition to a reinforcing medium and applying the temperature and pressure necessary to consolidate the desired form. The composite can be shaped by compression molding as well as other known fabrication methods. A notable aspect of the invention is that, although composite and neat resin components prepared from the invention can exhibit excellent dimensional stability to 1000°C and higher, they can be prepared at the lower temperatures and pressures typical to organic polymer processing.

As authorized and encouraged under 37 C.F.R. §1.97-1.99, applicant hereby cites as a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, the following patents and/or documents, required copies enclosed, which the Examiner should consider with respect to the above-identified United States Patent Application:

U.S. DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	INVENTOR
2,964,415	December 13, 1960	Payne Jr., et al.
3,933,689	January 20, 1976	Ray et al.
3,935,018	January 27, 1976	Ray et al.
3,964,919	June 22, 1976	Ray et al.
3,989,532	November 2, 1976	Ray et al.
4,284,664	August 18, 1981	Rauch, Sr.
4,888,311	December 19, 1989	Davidovits et al.
4,936,939	June 26, 1990	Woolum
FOREIGN DOCUMENTS		
PATENT/DOCUMENT NO.	DATE	COUNTRY
2 029 701	December 23, 1971	DE
32 46 604	June 20, 1984	DE
ARTICLES/OTHER DOCUMENTS		
Chemical Abstracts, vol. 96, no. 10, 8 March 1982; abstract no. 73730e, "Hardening agent for waterglass" XP000064038		
Chemical Abstracts, vol. 103, no. 12, 23 September 1985, abstract no. 92158d, "Strengthening of soil foundation with neutral grout" XP000064371		

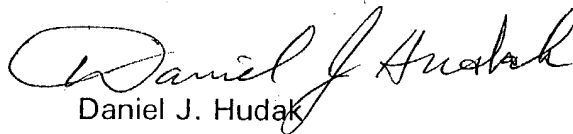
In accordance with 37 CFR 1.98(a)(2)(i) enclosed are copies of only the foreign and non-patent documents for the express purpose of providing the Patent and Trademark Office with an ample opportunity to evaluate the same and to arrive at an independent assessment of its materiality, if any, with regard to the examination of the application.

In reviewing the enclosed copy of the above publication, the Examiner is requested to ignore any underscoring or highlighting which may appear because such markings may or may not have any relationship to the subject matter of the above-identified application. The copy being submitted with this Information Disclosure Statement is the best copy available at this time.

An examination of the present application considering the above documents is requested.

Respectfully submitted,

HUDAK, SHUNK & FARINE CO. LPA

A handwritten signature in black ink, appearing to read "Daniel J. Hudak", is written over the printed name.

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Attorney Docket No.: 200EP040A (GOODR-A-2-RCE)

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				Atty. Docket No.: 200EP040A (GOODR-A-2-RCE)		Serial No.: 09/871,998	
				Applicant: Mazany et al.			
				Filing Date: June 1, 2001		Group: 1755	

U.S. PATENT DOCUMENTS							
Examiner Initial	Class	Document Number	Date	Name	Class	Subclass	Filing date if appropriate
		AA	2,964,415	December 13, 1960	Payne Jr., et al.		
		AB	3,933,689	January 20, 1976	Ray et al.		
		AC	3,935,018	January 27, 1976	Ray et al.		
		AD	3,964,919	June 22, 1976	Ray et al.		
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		AI					
		AJ					
		AK					

FOREIGN PATENT DOCUMENTS							
Examiner Initial	Class	Document Number	Date	Country	Class	Subclass	Translation Yes No
		AL	2 029 701	December 23, 1971	DE		
		AM	32 46 604	June 20, 1984	DE		
		AN					
		AO					
		AP					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AR		Chemical Abstracts, vol. 96, no. 10, 8 March 1982; abstract no. 73730e, "Hardening agent for waterglass" XP000064038
	AS		Chemical Abstracts, vol. 103, no. 12, 23 September 1985, abstract no. 92158d, "Strengthening of soil foundation with neutral grout" XP000064371
	AT		

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.